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# Quick Compliance Tool Suite (QCTS)

*Ready. Resourceful.  
Responsive!*

*Logistics Automation Manager  
COMFISCS  
29 July 2009*

# Background

- ❖ **COMFISCS received Congressional funds for IUID**
- ❖ **Intent was to produce Government-owned, standard, reusable tools**
- ❖ **DON IUID progress was behind schedule**
- ❖ **Standard processes needed**

# COMFISCS Approach

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## Organizations

-All DoD

-DON and DoD

-OSD  
-NSWCCD  
-FISCN  
-LCS  
-NPS  
-Other Services

-Navy SYSCOMS  
-DASN A&LM  
-USMC  
-Army

## Approach

Value

IUID Compliance

Communications

Implement Throughout the  
DON and Beyond

Produce Standard IUID Processes and  
Tools

Leverage Existing Government Expertise

## Goal

-Financial and Warranty  
Management  
-Tracking Item Performance & Age  
-Engineering Design Analysis  
-Maintenance Productivity  
-Reliability Improvement  
-Supply Productivity  
-Failure Analysis

-Reach out to DON and DoD  
organizations  
-Eliminate stovepipe  
implementations  
-Integrate into existing processes  
-Eliminate duplications of effort  
-Reduced cost of compliance  
-Government owned tools

-Identify best practices  
-Lessons learned

# Quick Compliance Tool Suite (QCTS)

- ❖ **Standard IUID tools designed to simplify and expedite IUID compliance efforts**
- ❖ **Contains reusable software modules**
- ❖ **Web based**
- ❖ **Handheld capabilities**
- ❖ **Government-owned**

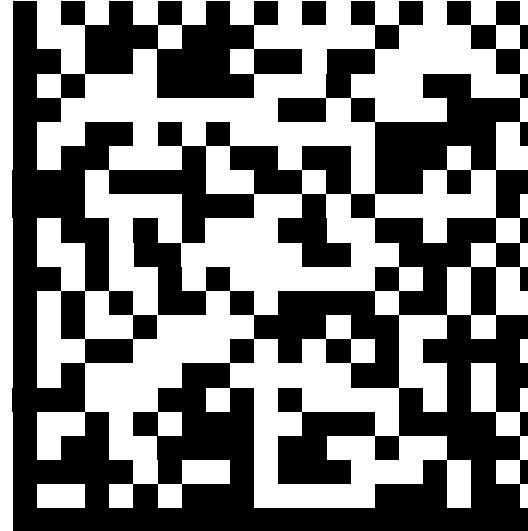


[www.qcts.org](http://www.qcts.org)



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# Item Unique Identification (IUID)



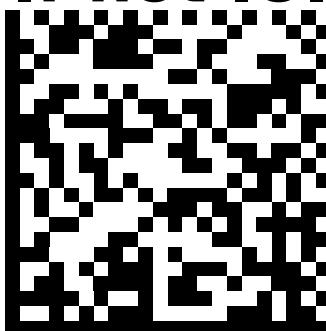
<b>What data is in the Data Matrix?</b>	<code>[]&gt;&lt;R/S&gt;06&lt;G/S&gt;25SLDN64267STDMSL33454&lt;R/S&gt;&lt;EO T&gt;</code>
<b>Is it IUID compliant?</b>	<b>YES</b>
<b>What are the different pieces of data within the IUID?</b>	<code>[]&gt; &lt;R/S&gt; <b>06</b> &lt;G/S&gt; <b>25S</b> <b>LDN64267STDMSL33454</b> &lt;R/ S&gt; &lt;EOT&gt;</code>
<b>What is the UII?</b>	LDN64267STDMSL33454
<b>Is the UII registered?</b>	<b>NO</b>



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# QCTS IUID Compliance Checker

- ❖ **Determines whether a 2D data matrix is IUID compliant**
  - Reflection of IUID policy
  - Checks 54+ IUID permutations
- ❖ **If IUID compliant...returns UII and DoD IUID Registry status**



I'm IUID compliant...

Trust me.

QCTS IUID Compliance Registry Check Scanner Support

**IUID Compliance**

Click to Scan or Upload

**UII:**

**Compliance Results:** UID passed error check.

**Registry Results:**

Checks Performed	
Status	Check Type
✓	Check for Invalid Header
✓	Check for Invalid Format Code
✓	Check for Violation of Enterprise Identifier Constraints
✓	Check for Invalid CAGE Code
✓	Check for Invalid Original Part Number

IUID Mark Data	
Element Name	Value
CAGE	16331
Serial Number	B333550
Original Part Number	63A158097P1
Format	06
IAC	D
UII	D1633163A158097P1B333550
Raw IUID	[...]><R/S> 06 <G/S> 17V16331 <G/S> 1F63A158097P1 <G/S> SB333550 <R/S> <EOT>



# QCTS Marking Manager

## ❖ Designed to help managers...

- Organize items to be marked
- Assign personnel to the marking effort
- Identify label types
- Assign marking instructions and helpful images
- Track progress of marking efforts

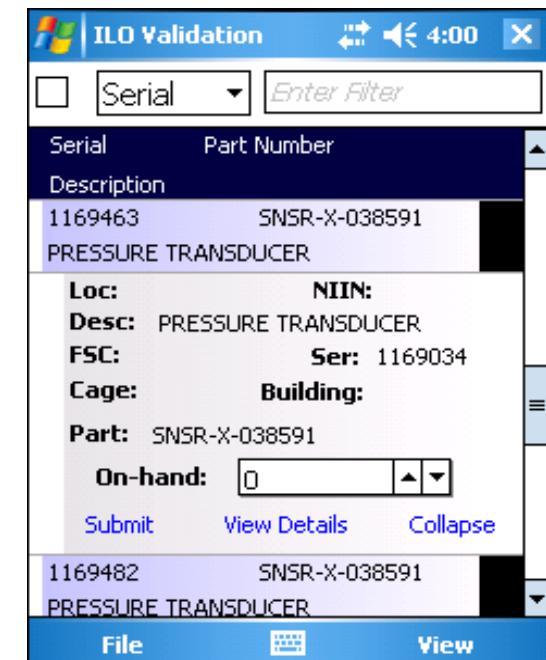
**Bundle Wizard**

Step 6: Confirm Information	
Step 1: Start	Please Review the following:
Step 2: Upload	File: ExcelUploadFile12.xls
Step 3: Bundle	Bundle: My Inventory
Step 4: Label	Bundle Description: bundle of my inventory
Step 5: Task	Bundle Site: Oxford, MS
Step 6: Confirm	Label Set Source: Order Labels
Step 7: Finish	Label Set Template: Steel 4x1
	Task Name: Task1
	Task Description: for marking items
	Task Instructions: Put the label on the item
	
	
	
	

**Previous** **Submit** **Cancel**

# QCTS Mobile/Web Based

- ❖ **Designed to run on handheld computers**
- ❖ **Series of software modules**
- ❖ **Helps marking personnel quickly identify items**
- ❖ **Able to scan IUID data matrices as well as linear barcodes**
- ❖ **Associates UII with the item's pedigree data**
- ❖ **Contains filtering capabilities**
- ❖ **Tested to handle 1,000,000+ items**



# QCTS APIs

- ❖ **QCTS functionality available for incorporation into existing AISs**
- ❖ **Reduces duplicative software development efforts**
- ❖ **Available as libraries for new and existing applications**
  - Libraries available in Java, JavaScript, and .NET
  - Example code provided to ease integration
- ❖ **Can be used for desktop or handheld applications**

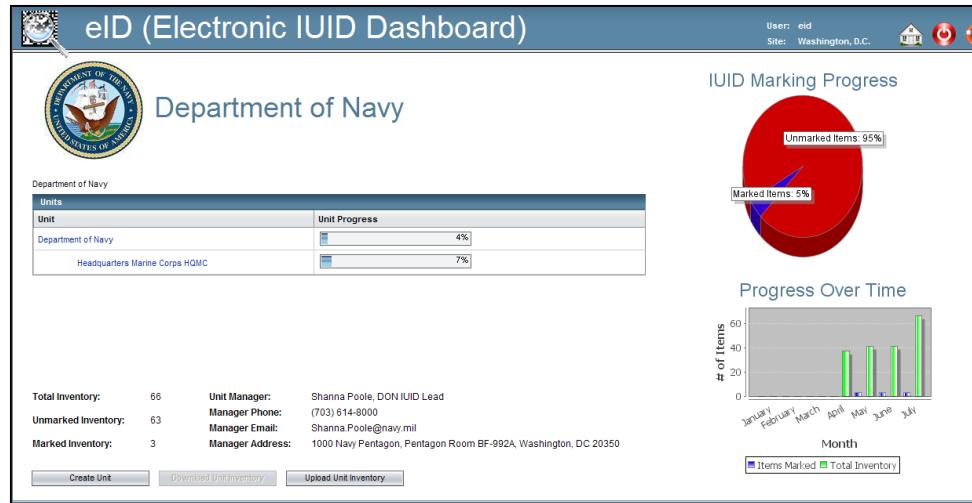


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# Electronic IUID Dashboard (eID)

## ❖ Monitors legacy IUID marking over an entire organization or command

- Command level marking progress overview (Dashboard)
- Drill down to any unit below you in the command structure
- Simple data entry by file upload
- Fully integrated with QCTS
- No requirement to use QCTS





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# IUID Wiki

## ❖ Repository for IUID-related experiences

- Lessons learned
- Marking technologies
- Successful efforts
- Failed approaches
- Etc.

## ❖ Available now, ready for input

## ❖ Will mature as subject matter experts input experiences

navigation

- Main Page
- Community portal
- Current events
- Recent changes
- Random page
- Help

search

toolbox

- What links here
- Related changes
- Special pages
- Printable version
- Permanent link

Page discussion view source history Log in / create account

## Main Page

### IUID

**Item Unique Identification (IUID)** is an identification system currently being instituted by the United States Department of Defense (DoD). It involves labeling items so that each item is uniquely and unambiguously identified and distinguishable from other tangible items. Items are assigned an identifier in the form of a unique data string, known as an **IUID** (Item Unique Identifier). The IUID is encoded in a 2D Matrix bar code, similar to the one on the right, that is placed on the item. This unique identifier is assigned to a single item and is never reused, thus ensuring each IUID label is unique to that item. Once assigned, the IUID is never changed, even if the item is modified.

As of recently, methods have been instantiated that allow IUID bar codes to be read by a bar code scanner, like the one below, and translated into data that can be stored into a database. This allows for marked items to be organized and assessed.

Getting Started

- Configuration Settings List
- MediaWiki FAQ
- MediaWiki Release Mailing List
- Scanner Documentation
- Marking Lessons Learned
- Create a Wiki Account
- Add Information to the IUID Wiki

WELCOME TO THE IUID WIKI!

# COMFISCS Accomplishments

- ❖ **Integrated IUID capabilities into Product History Information Management System (PHIMS) at FISCN Supply, NSWCCD Philadelphia**
- ❖ **Produced Quick Compliance Tool Suite (QCTS)**
  - IUID tools produced for PHIMS used as baseline for QCTS
  - QCTS Web and Mobile versions available
  - Integrated QCTS into hand held solution for MFOM (USFF)
  - Provided dlls for IUID compliance to Barcode System (BCS) in support of LCS
  - Users spread across DoD including Army, Navy, Marine Corps, OSD
- ❖ **Provided wireless equipment and support to Army TAPO**
- ❖ **COMFISCS IUID Team completed marking of items associated with Engine kits**
- ❖ **Procured portable parts marking carts from NSWC Corona and SPAWAR Systems San Diego for 1/3 cost of industry cart**
- ❖ **Provided numerous training sessions via WebEx**
- ❖ **Continued support for Naval Postgraduate School (NPS)**

# Underway

## ❖ **Littoral Combat Ship (LCS) support**

- Partnering with LCS MM and Sea Frame to implement IUID
- Currently working with Panama City (Mine Countermeasure)
  - Documenting lessons learned
  - Establishing IUID baseline processes for MPSF
- Scheduled marking of parts associated with 2 30mm guns
  - 20 August 09 at Dahlgren

## ❖ **FISCN ILO**

- Providing IUID marking capability for FISCN during ILO
- Enhancing manual processes
- Automated Metrics

## ❖ **Integrating COMFISCS IUID tools into WAWF for Receipt and Acceptance**

- Partnered with OSD



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# QCTS Contacts

## QCTS Contacts

**Logistics Automation Manager**  
COMFISCS  
Washington, D.C.

**Philadelphia**  
**IUID Program Manager**  
Applied Enterprise Solutions  
(251) 455-7289

## COMFISCS IUID Core Team

Naval Surface Warfare Center Corona

**SPAWAR Systems San Diego**

**Naval Surface Warfare Center Carderock,**



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# Questions?